



H. P. Weldon  
1/31/03

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Kevin P. Weldon  
Kevin P. Weldon

Date: January 13, 2003

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of: )  
DOUGLAS E. BISE et al. ) GROUP ART UNIT 3672  
Serial No. 09/888,464 ) CONFIRMATION NO.  
Filed: June 25, 2001 ) Examiner:  
For: MONOLITHIC ROOF BIT CUTTING ) Jennifer H. Gay  
BIT INSERT ) January 13, 2003

HON. ASSISTANT COMMISSIONER FOR PATENTS  
BOX FEE AMENDMENT  
Washington, DC 20231

Sir:

AMENDMENT

In response to the Office Action mailed  
July 16, 2002, please amend the above-identified application  
as follows:

IN THE CLAIMS:

Claims 18, 22, 24 and 36 have been cancelled.

New claims 37-39 have been added.

Claims 5, 8, 19, 23, 25, 26 and 32 have been amended

as follows:

Subj1 5. (Amended) The rotary drill bit of claim 2  
wherein a cutting edge transition portion is positioned  
between the lower step cutting edge and the upper step cutting  
edge the transition portion rises a vertical height of  
generally between 1/16-1/8 inches.

Q1

Subj1 6. (Amended) The rotary drill bit of claim 6  
wherein each of the stepped cutting edges has a radially  
inward upper step and a radially outward lower step.

Q2

Subj2 19. (Amended) A rotary drill bit for penetrating  
earth strata, the drill bit comprising: an elongate bit body  
having an axial forward end; and a monolithic hard insert  
being affixed to the bit body at the axial forward end

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